

Vent Master*

Australia's own high rate air release/vacuum break valve Australia and the World's new solution for arvb.



Why do I need an
air release/
vacuum break valve?

- No valve of comparable size performs better than the Vent Master from GFR.
- Available in non-slam (anti-shock) configuration **for prevention of compression shocks** in the pipeline.
- Full size large orifice for **high air-transit performance**.
- Solid 316SS and engineering plastics construction for **superior corrosion resistance**. In critical areas, engineering plastics **offer less friction resistance** for superior expulsion of solid contaminants.
- Automatic anti-clog configuration for **better expulsion of solid contaminants**.
- Simple design for **quick installation** and economical operation.
- Standard bsp threads in 25mm and 50mm. Larger sizes are flanged in table E. Other flange tables or mounting configurations can be supplied on request.

Removing air:

1. Increases water meter accuracy.
2. Decreases corrosion in steel or metal lines.
3. Decreases pump cavitation.
4. Increases flow rates/decreases pumping costs.

Introducing air:

1. Prevents vacuum collapse of plastic pipes (especially hdpe and pp).
2. Prevents column separation.
3. Allows for better evacuation when emptying line.

Installation notations:

- It is generally recommended that valves are positioned every 500 mtrs in a normally flowing pipeline and at each high point/change of slope.
- Valves should always be installed in conjunction with an isolation valve.

Some terms and recommendations:

Distributed by :

ARVB: air-release/vacuum break.

CPR: critical pressure ratio. Maximum differential pressure across an orifice where increased pressure in line will not increase airflow.

Dynamic closure is when: the large orifice of the valve is closed-off when the internal float is uplifted by out-rushing air.

Kinetic closure is when: the large orifice and the auto orifice are closed when the float is buoyed by the entry of water into the valve.

Automatic venting is when: air is vented via the automatic orifice under pressurised conditions.

Vacuum breaking is when: air is inhaled through the valve and into the pipeline during pipeline draining.

Non slam is recommended:

1. where an arvb is positioned at the end of a pipeline.
2. where column separation may occur.
3. on bore-heads and pumps.

Manufactured by :

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